PATENT COOPERATION TREATY 9/926585

	From	the INTERNATIONAL B	JUREAU
PCT	To:		
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year)	Tho 46, F-9	ELLAN-LEMONNIER, Br omson multimedia quai Alphonse Le Gallo 2648 Boulogne NNCE	•
05 November 2001 (05.11.01)		Te	chnology Center 2600
Applicant's or agent's file reference PF990030 International application No. PCT/EP00/04053		IMPORTANT NOT	IFICATION
PC1/Er00/04033	US	May 2000 (05.05.00)	
The following indications appeared on record concerning: X the applicant	the age	State of Nationality	on representative State of Residence
THOMSON MULTIMEDIA 46, quai Alphonse Le Gallo F-92100 Boulogne-Billancourt France		FR Telephone No. Facsimile No.	F R
		Teleprinter No.	
The International Bureau hereby notifies the applicant that the person The person The name the additional bureau hereby notifies the applicant that the additional bureau hereby notifies the applicant that the person the person		the nationality	concerning: the residence
Name and Address		State of Nationality	State of Residence
THOMSON LICENSING S. A. 46, Quai A. Le Gallo		FR	FR
F-92100 Boulogne-Billancourt France		Telephone No.	
		Facsimile No.	
		Teleprinter No.	
3. Further observations, if necessary:			
4. A copy of this notification has been sent to:			
X the receiving Office	ſ	the designated Offices of	concerned
the International Searching Authority	[X the elected Offices cond	cerned
the International Preliminary Examining Authority	[other:	
The International Bureau of WIPO	Authorized	officer	
34, chemin des Colombettes 1211 Geneva 20, Switzerland		Ning XU	
Facsimile No.: (41-22) 740.14.35	Telephone	No.: (41-22) 338.83.38	

P/ SNT COOPERATION TREAT

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

FURON, Teddy et al

From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 16 January 2001 (16.01.01)	in its capacity as elected Office
International application No.	Applicant's or agent's file reference
PCT/EP00/04053	PF990030
International filing date (day/month/year)	Priority date (day/month/year)
05 May 2000 (05.05.00)	01 June 1999 (01.06.99)
Applicant	

-1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	06 December 2000 (06.12.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Pascal Piriou

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY To: RUELLAN-LEMONNIER, B. THOMSON MULTIMEDIA NOTIFICATION OF TRANSMITTAL OF 46 Quai Alphonse Le Gallo multimedia THE INTERNATIONAL PRELIMINARY F-92648 Boulogne Cedex **EXAMINATION REPORT FRANCE** 0 7 Jun 200 (PCT Rule 71.1) Patent Department Administration 05.06.2001 (day/month/year) Applicant's or agent's file reference IMPORTANT NOTIFICATION PF990030 International filing date (day/month/year) Priority date (day/month/year) International application No. 01/06/1999 05/05/2000 PCT/EP00/04053

PATENT COOPERATION TREATY

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

Applicant

THOMSON MULTIMEDIA

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

)

European Patent Office D-80298 Munich

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Authorized officer

Schalinatus, D

Tel.+49 89 2399-8242



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

14

		's file reference	FOR FURTHER ACTION	See Notifica	ation of Transmittal of Internation Examination Report (Form PCT	nal [/IPEA/416]
PF99003						
Internation			International filing date (day/month	vyear)	Priority date (day/month/year) 01/06/1999	
PCT/EPC			05/05/2000		01/06/1999	
H04N1/3		t Classification (IPC) or na	tional classification and IPC			
Applicant THOMS	ON ML	ILTIMEDIA				
1. This and is	internat s transr	ional preliminary exami nitted to the applicant a	ination report has been prepared according to Article 36.	d by this Inte	rnational Preliminary Exami	ning Authority
2. This	REPOF	RT consists of a total of	7 sheets, including this cover s	heet.		
t (seen an	nended and are the bas	d by ANNEXES, i.e. sheets of the sis for this report and/or sheets of the O7 of the Administrative Instructions sheets.	containing re	ctifications made before this	hich have Authority
3. This	_	contains indications rela	ating to the following items:			
ı i		Priority				
111			ppinion with regard to novelty, in	ventive step	and industrial applicability	
IV		Lack of unity of invention	on			
V	\boxtimes	Reasoned statement u citations and explanation	nder Article 35(2) with regard to ons suporting such statement	novelty, inve	entive step or industrial appli	icability;
VI.		Certain documents cit	ed			
VII		Certain defects in the i	nternational application			
VIII	×	Certain observations o	n the international application			
Date of su	bmission	n of the demand	Date of	completion of	f this report	
06/12/20	000		05.06.2	2001		
Name and preliminar	y examir	address of the international	al Authori	zed officer		STATE OF SANTENTIAN
<u></u>	D-80	pean Patent Office 298 Munich -49 89 2399 - 0 Tx: 52365		nerl, A		
		±40 80 2399 - 4465		one No. 140 9	0.000.0000	20 TO STORY



International application No. PCT/EP00/04053

I. Ba	sis	of	the	re	ро	rt
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•		•	
1.	the i	rocciving Office in I	nents of the international application (Replacement sheets which have been furnished to response to an invitation under Article 14 are referred to in this report as "originally filed" this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-14	ļ	as originally filed
	Clai	ms, No.:	
	1-11	I	as originally filed
	Dra	wings, sheets:	
	1-2		as originally filed
2.	With lang	n regard to the lan g guage in which the	guage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.
	The	ese elements were	available or furnished to this Authority in the following language: , which is:
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of p	ublication of the international application (under Rule 48.3(b)).
		the language of a 55.2 and/or 55.3)	translation furnished for the purposes of international preliminary examination (under Rule
3.	Wit	h regard to any nu ernational prelimina	cleotide and/or amino acid sequence disclosed in the international application, the ry examination was carried out on the basis of the sequence listing:
		contained in the i	nternational application in written form.
		filed together with	the international application in computer readable form.
		furnished subseq	uently to this Authority in written form.
		furnished subseq	uently to this Authority in computer readable form.
		the international	at the subsequently furnished written sequence listing does not go beyond the disclosure in application as filed has been furnished.
		The statement th listing has been f	at the information recorded in computer readable form is identical to the written sequence urnished.
4	. Th	e amendments hav	ve resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:





International application No. PCT/EP00/04053

		the drawings,	sheets:
5.		This report has been considered to go bey	established as if (some of) the amendments had not been made, since they have been rond the disclosure as filed (Rule 70.2(c)):
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this
6.	Ado	litional observations, i	f necessary:
III.	Nor	n-establishment of o	pinion with regard to novelty, inventive step and industrial applicability
1.	The obv	questions whether the ious), or to be industreather the the entire internation	e claimed invention appears to be novel, to involve an inventive step (to be non- ially applicable have not been examined in respect of:
	⊠	claims Nos. 5.	
be	caus	se:	
		the said internationa not require an intern	I application, or the said claims Nos. relate to the following subject matter which does ational preliminary examination (<i>specify</i>):
	×		ns or drawings (<i>indicate particular elements below</i>) or said claims Nos. 5 are so unclea pinion could be formed (<i>specify</i>):
		the claims, or said c could be formed.	aims Nos. are so inadequately supported by the description that no meaningful opinion
		no international sea	ch report has been established for the said claims Nos
2.	and	neaningful internation: I/or amino acid seque tructions:	al preliminary examination cannot be carried out due to the failure of the nucleotide nce listing to comply with the standard provided for in Annex C of the Administrative
			not been furnished or does not comply with the standard.
		the computer readal	ole form has not been furnished or does not comply with the standard.
	cita	ations and explanati	nder Article 35(2) with regard to novelty, inventive step or industrial applicability; ons supporting such statement
1.	Sta	tement	
	No	velty (N)	Yes: Claims 2,4,7,8,10,11





International application No. PCT/EP00/04053

No:

Claims 1,3,6,9

Inventive step (IS)

Yes:

Claims

No:

Claims 1-11

Industrial applicability (IA)

Yes: No: Claims 1-11 Claims

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 5 is so unclear (see section VIII) that the scope of protection can not be determined.

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents: 1

> D1: EP-A-0 828 372 D2: EP-A-0 840 513

- 2 The subject-matter of claims 1, 3, 6 and 9 lacks novelty (Article 33(2) PCT).
- 2.1 The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document): A method for inserting a watermark into data representing a content to be protected (abstract), comprising the steps of:
 - supplying a pseudo random noise sequence to the input of a filter with predefined impulse response (column 3, line 40 - column 4, line 32; figures 1 and 3); and
 - b) adding said filtered pseudo random noise sequence to said data (column 4,

lines 24-32; figure 3).

Therefore, document D1 discloses a method falling within the terms of claim 1.

The foregoing objection applies equally to the closely related apparatus claim 6.

It is noted that it appears that the subject-matter of claims 1 and 6 is also disclosed in document D2 (column 5, lines 41-46; figure 1).

- 2.2 Document D1 further discloses a method for detecting a watermark in data representing a content received (abstract), comprising the steps of
 - i) performing a spectral analyses of said data (column 4, lines 33-48), and
 - ii) deducing therefrom whether said data include a pseudo noise sequence which has been filtered by a filter with a predefined spectral response (column 4, line 49 column 5, line 4; figure 4).

Therefore, document D1 discloses a method falling within the terms of claim 3.

The foregoing objection applies equally to the closely related apparatus claim 9.

- 3 The subject-matter of claims 2, 3, 4 and 7, 8, 10 and 11 lacks an inventive step (Article 33(3) PCT).
 - Dependent claims 2, 4, 7, 8, 10 and 11 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, involve an inventive step because these claims concern commonplace features which can either be derived from the documents cited in the International Search Report (e.g. claims 2 and 7: D2, column 6, lines 9-12, figure 2; claim 11: figure 4) or are obvious to a skilled person.
- 4 Industrial applicability: in the field of watermarking of digital data.

Re Item VIII

Certain observations on the international application

Claim 5 does not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. The claim attempts to define the subject-matter in terms of the result to be achieved which merely amounts to a statement of the underlying problem. The technical apparatus features necessary for achieving this result should be added.

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 7 December 2000 (07.12.2000)

PCT

(10) International Publication Number WO 00/74371 A1

(51) International Patent Classification⁷:

(21) International Application Number: PCT/EP00/04053

(22) International Filing Date: 5 May 2000 (05.05.2000)

(25) Filing Language:

English

H04N 1/32

(26) Publication Language:

English

(30) Priority Data: 99/07139

1 June 1999 (01.06.1999) FR

- (71) Applicant (for all designated States except US): THOM-SON MULTIMEDIA [FR/FR]; 46, quai Alphonse Le Gallo, F-92100 Boulogne-Billancourt (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FURON, Teddy [FR/FR]; Thomson multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne (FR). DUHAMEL, Pierre [FR/FR]; Thomson multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne (FR).

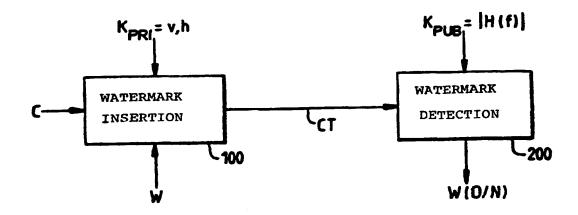
- (74) Agent: RUELLAN-LEMONNIER, Brigitte; Thomson multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne (FR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DIGITAL DATA WATERMARKING SYSTEM USING NOVEL WATERMARK INSERTION AND DETECTION METHODS



(57) Abstract: The watermarking system uses a first series of parameters (v, h), the private key (K_{PRI}) , for the insertion of the watermark, and a second series of parameters (|H(f)|), the public key (K_{PUB}) , for the detection of the watermark, so that knowledge of the public key does not make it possible to know the private key and does not make it possible to delete or modify the watermark. The insertion of the watermark is performed by adding a pseudo random noise sequence (v), filtered by a filter with impulse response (h), to the data to be watermarked. The detection of the watermark is performed by searching through the data received for whether they contain noise which has been filtered by a filter with predefined spectral response (H(f)). Application to copy protection.

0/74371 A1

Intern plication No PCT/E1 00/04053

		101721	
A. CLASSIFIC	CATION OF SUBJECT MATTER H04N1/32		
	nternational Patent Classification (IPC) or to both national classifi	cation and IPC	
CIÉL DE S	EARCHED		
Minimum doc IPC 7	umentation searched (classification system followed by classification syst	tion symbols)	
	on searched other than minimum documentation to the extent that		
Electronic da	ita base consulted during the international search (name of data I	pase and, where practical, search terms	used)
EPO-Int	ternal, WPI Data, PAJ		
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	rioryant to dam No.
A	EP 0 766 468 A (NIPPON ELECTRIC 2 April 1997 (1997-04-02) abstract		1-4,6,7
A	column 6, line 40 -column 9, li EP 0 840 513 A (NIPPON ELECTRIC 6 May 1998 (1998-05-06) abstract column 3, line 40 -column 4, li	CO)	1-4,6,7
A	column 4, line 49 -column 7, li US 5 499 294 A (FRIEDMAN GARY L 12 March 1996 (1996-03-12) abstract	ne 22	5
		-/	
	10.00	Patent family members a	re listed in annex.
X Fu	orther documents are listed in the continuation of box C.	X Patent family members a	
"A" docur cons "E" earlie filing "L" docur whic	categories of cited documents: ment defining the general state of the art which is not sidered to be of particular relevance or document but published on or after the international grate of the document but published on or after the international grate of the control of the	"Y" document of particular relevan	ce; the claimed invention the document is taken alone ce; the claimed invention to cannot be considered to the the document is taken alone ce; the claimed invention the an inventive step when the
othe	er means iment published prior to the international filing date but ir than the priority date claimed	in the art. "&" document member of the sam	e patent family
	ne actual completion of the international search	Date of mailing of the internal	tional search report
	31 July 2000	04/08/2000	
Name ar	nd mailing address of the ISA Furopean Patent Office, P.B. 5818 Patentiaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Hubeau, R	

Interr plication No PCT/EP-00/04053

		PCI/EF-00/	
C.(Continue	Ition) DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to dain No.
A	US 5 748 783 A (RHOADS GEOFFREY B) 5 May 1998 (1998-05-05) abstract column 2, line 51 -column 4, line 8		8,10
			·
		·	

information ent family members

Interr (PO) PCT/EP 00/04053

Patent document cited in search report		Publication date		atent family nember(s)		Publication date
EP 0766468	Α	02-04-1997	AU AU	701639 (6584096)	Α	04-02-1999 10-04-1997 29-03-1997
			CA JP US	2184949 9191394 5930369	Α	22-07-1997 27-07-1999
EP 0840513	Α	06-05-1998	US AU CA JP SG	5915027 4434097 2219205 10145757 63773	A A A	22-06-1999 07-05-1998 05-05-1998 29-05-1998 30-03-1999
US 5499294	Α	12-03-1996	NONE			
US 5748783	Α	05-05-1998	AU CA EP EP WO US US	6022396 2218957 1003324 0824821 9636163 5862260 5841886	A A A A	29-11-1996 14-11-1996 24-05-2000 25-02-1998 14-11-1996 19-01-1999 24-11-1998

PATENT COOPERATION TREATY



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification	of Transmittal of International Search Report
PF990030		(220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 00/04053	05/05/2000	01/06/1999
Applicant		
THOMSON MULTIMEDIA		
THORSON MOETINEDIA		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Au ansmitted to the International Bureau.	nthority and is transmitted to the applicant
This International Search Report consists X It is also accompanied by	of a total of sheets. a copy of each prior art document cited in thi	is report.
Basis of the report		
	international search was carried out on the ba less otherwise indicated under this item.	asis of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of	the international application furnished to this
- 1	d/or amino acid sequence disclosed in the i	international application, the international search
l _ .	onal application in written form.	
	mational application in computer readable for	rm.
furnished subsequently to	this Authority in written form.	
	this Authority in computer readble form.	
the statement that the sub international application a	psequently furnished written sequence listing is filed has been furnished.	does not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readable form	is identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of Invention is lac	king (see Box II).	
4. With regard to the title ,		
X the text is approved as su	bmitted by the applicant.	
the text has been establis	hed by this Authority to read as follows:	
5. With regard to the abstract ,		
X the text is approved as su	bmitted by the applicant.	
the text has been establis within one month from the	hed, according to Rule 38.2(b), by this Author date of mailing of this international search re	rity as it appears in Box III. The applicant may, eport, submit comments to this Authority.
6. The figure of the drawings to be publ	ished with the abstract is Figure No.	4
as suggested by the appli	cant.	None of the figures.
because the applicant fail	ed to suggest a figure.	
because this figure better	characterizes the invention.	

International Application No PCTSP 00/04053

A. CLASSIFICATION OF SUBJECT MATTE IPC 7 H04N1/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
EP 0 766 468 A (NIPPON ELECTRIC CO) 2 April 1997 (1997-04-02) abstract column 6, line 40 -column 9, line 6	1-4,6,7
EP 0 840 513 A (NIPPON ELECTRIC CO) 6 May 1998 (1998-05-06) abstract column 3, line 40 -column 4, line 16 column 4, line 49 -column 7, line 22	1-4,6,7
US 5 499 294 A (FRIEDMAN GARY L) 12 March 1996 (1996-03-12) abstract/	5
	EP 0 766 468 A (NIPPON ELECTRIC CO) 2 April 1997 (1997-04-02) abstract column 6, line 40 -column 9, line 6 EP 0 840 513 A (NIPPON ELECTRIC CO) 6 May 1998 (1998-05-06) abstract column 3, line 40 -column 4, line 16 column 4, line 49 -column 7, line 22 US 5 499 294 A (FRIEDMAN GARY L) 12 March 1996 (1996-03-12) abstract

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.				
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family				
Date of the actual completion of the international search 31 July 2000	Date of mailing of the international search report 04/08/2000				
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Hubeau, R				

International Application No
PCT/FP 00/04053

C.(Continuation) DOCUMENTS CONSIDER BE RELEVANT	
Category Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
US 5 748 783 A (RHOADS GEOFFREY B) 5 May 1998 (1998-05-05) abstract column 2, line 51 -column 4, line 8	8,10
	·

1

Information on patent family members

International Application No
PCTSP 00/04053

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
EP	0766468	A	02-04-1997	AU AU CA JP US	701639 B 6584096 A 2184949 A 9191394 A 5930369 A	04-02-1999 10-04-1997 29-03-1997 22-07-1997 27-07-1999
EP	0840513	A	06-05-1998	US AU CA JP SG	5915027 A 4434097 A 2219205 A 10145757 A 63773 A	22-06-1999 07-05-1998 05-05-1998 29-05-1998 30-03-1999
US	5499294	Α	12-03-1996	NONE		
US	5748783	Α	05-05-1998	AU CA EP EP WO US US	6022396 A 2218957 A 1003324 A 0824821 A 9636163 A 5862260 A 5841886 A	29-11-1996 14-11-1996 24-05-2000 25-02-1998 14-11-1996 19-01-1999 24-11-1998